

OIPE

## RAW SEQUENCE LISTING

DATE: 07/25/2001

PATENT APPLICATION: US/09/903,412

TIME: 14:14:51

Input Set : A:\109-050US1 Sequence listing.txt

Output Set: N:\CRF3\07252001\I903412.raw

PS

ENTERED

4 <110> APPLICANT: Koide, Shohei  
 6 <120> TITLE OF INVENTION: ARTIFICIAL ANTIBODY POLYPEPTIDES  
 8 <130> FILE REFERENCE: 109.050US1  
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/903,412  
 C--> 10 <141> CURRENT FILING DATE: 2001-07-11  
 10 <150> PRIOR APPLICATION NUMBER: US 60/217,474  
 11 <151> PRIOR FILING DATE: 2000-07-11  
 13 <160> NUMBER OF SEQ ID NOS: 121  
 15 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 14  
 19 <212> TYPE: PRT  
 20 <213> ORGANISM: Unknown  
 22 <220> FEATURE:  
 23 <223> OTHER INFORMATION: Anti-hen egg lysozyme (HEL) antibody.  
 25 <400> SEQUENCE: 1  
 26 Ala Arg Glu Arg Asp Tyr Arg Leu Asp Tyr Trp Gly Gln Gly  
 27 1 5 10  
 29 <210> SEQ ID NO: 2  
 30 <211> LENGTH: 17  
 31 <212> TYPE: PRT  
 32 <213> ORGANISM: Unknown  
 34 <220> FEATURE:  
 35 <223> OTHER INFORMATION: An anti-HEL single VH domain termed VH8.  
 37 <400> SEQUENCE: 2  
 38 Ala Arg Gly Ala Val Val Ser Tyr Tyr Ala Met Asp Tyr Trp Gly Gln  
 39 1 5 10 15  
 40 Gly  
 43 <210> SEQ ID NO: 3  
 44 <211> LENGTH: 16  
 45 <212> TYPE: PRT  
 46 <213> ORGANISM: Homo sapiens  
 48 <400> SEQUENCE: 3  
 49 Tyr Ala Val Thr Gly Arg Gly Asp Ser Pro Ala Ser Ser Lys Pro Ile  
 50 1 5 10 15  
 52 <210> SEQ ID NO: 4  
 53 <211> LENGTH: 12  
 54 <212> TYPE: PRT  
 55 <213> ORGANISM: Artificial Sequence  
 57 <220> FEATURE:  
 58 <223> OTHER INFORMATION: Mutant D1.3-1.  
 60 <400> SEQUENCE: 4  
 61 Tyr Ala Glu Arg Asp Tyr Arg Leu Asp Tyr Pro Ile  
 62 1 5 10  
 64 <210> SEQ ID NO: 5  
 65 <211> LENGTH: 12  
 66 <212> TYPE: PRT

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67 <213> ORGANISM: Artificial Sequence
69 <220> FEATURE:
70 <223> OTHER INFORMATION: Mutant D1.3-2.
72 <400> SEQUENCE: 5
73 Tyr Ala Val Arg Asp Tyr Arg Leu Asp Tyr Pro Ile
74 1 5 10
76 <210> SEQ ID NO: 6
77 <211> LENGTH: 16
78 <212> TYPE: PRT
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: Mutant D1.3-3.
84 <400> SEQUENCE: 6
85 Tyr Ala Val Arg Asp Tyr Arg Leu Asp Tyr Ala Ser Ser Lys Pro Ile
86 1 5 10 15
88 <210> SEQ ID NO: 7
89 <211> LENGTH: 13
90 <212> TYPE: PRT
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: Mutant D1.3-4.
96 <400> SEQUENCE: 7
97 Tyr Ala Val Arg Asp Tyr Arg Leu Asp Tyr Lys Pro Ile
98 1 5 10
100 <210> SEQ ID NO: 8
101 <211> LENGTH: 11
102 <212> TYPE: PRT
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: Mutant D1.3-5.
108 <400> SEQUENCE: 8
109 Tyr Ala Val Arg Asp Tyr Arg Ser Lys Pro Ile
110 1 5 10
112 <210> SEQ ID NO: 9
113 <211> LENGTH: 14
114 <212> TYPE: PRT
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Mutant D1.3-6.
120 <400> SEQUENCE: 9
121 Tyr Ala Val Thr Arg Asp Tyr Arg Leu Ser Ser Lys Pro Ile
122 1 5 10
124 <210> SEQ ID NO: 10
125 <211> LENGTH: 15
126 <212> TYPE: PRT
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Mutant D1.3-7.
132 <400> SEQUENCE: 10

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133 Tyr Ala Val Thr Glu Arg Asp Tyr Arg Leu Ser Ser Lys Pro Ile
134 1 5 10 15
136 <210> SEQ ID NO: 11
137 <211> LENGTH: 15
138 <212> TYPE: PRT
139 <213> ORGANISM: Artificial Sequence
141 <220> FEATURE:
142 <223> OTHER INFORMATION: Mutant VH8-1.
144 <400> SEQUENCE: 11
145 Tyr Ala Val Ala Val Val Ser Tyr Tyr Ala Met Asp Tyr Pro Ile
146 1 5 10 15
148 <210> SEQ ID NO: 12
149 <211> LENGTH: 16
150 <212> TYPE: PRT
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Mutant VH8-2.
156 <400> SEQUENCE: 12
157 Tyr Ala Val Thr Ala Val Val Ser Tyr Tyr Ala Ser Ser Lys Pro Ile
158 1 5 10 15
160 <210> SEQ ID NO: 13
161 <211> LENGTH: 59
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: Oligonucleotide FN1F.
168 <400> SEQUENCE: 13
169 cgggatccca tatgcagggt tctgatgttc cgcgtgacct ggaagttggt gctgcgacc 59
171 <210> SEQ ID NO: 14
172 <211> LENGTH: 55
173 <212> TYPE: DNA
174 <213> ORGANISM: Artificial Sequence
176 <220> FEATURE:
177 <223> OTHER INFORMATION: Oligonucleotide FN1R.
179 <400> SEQUENCE: 14
180 taactgcagg agcatcccag ctgatcagca ggctagtcgg ggtcgcagca acaac 55
182 <210> SEQ ID NO: 15
183 <211> LENGTH: 51
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: Oligonucleotide FN2F.
190 <400> SEQUENCE: 15
191 ctctctgcagt taccgtgcgt tattaccgta tcacgtacgg tgaaaccggt g 51
193 <210> SEQ ID NO: 16
194 <211> LENGTH: 39
195 <212> TYPE: DNA
196 <213> ORGANISM: Artificial Sequence
198 <220> FEATURE:

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199 <223> OTHER INFORMATION: Oligonucleotide FN2R.
201 <400> SEQUENCE: 16
202 gtgaattcct gaaccgggga gttaccaccg gtttcaccg          39
204 <210> SEQ ID NO: 17
205 <211> LENGTH: 46
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Oligonucleotide FN3F.
212 <400> SEQUENCE: 17
213 aggaattcac tgtacctggt tccaagtcta ctgctaccat cagcgg          46
215 <210> SEQ ID NO: 18
216 <211> LENGTH: 38
217 <212> TYPE: DNA
218 <213> ORGANISM: Artificial Sequence
220 <220> FEATURE:
221 <223> OTHER INFORMATION: Oligonucleotide FN3R.
223 <400> SEQUENCE: 18
224 gtatagtcga cacccggttt caggccgctg atggtagc          38
226 <210> SEQ ID NO: 19
227 <211> LENGTH: 32
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Oligonucleotide FN4F.
234 <400> SEQUENCE: 19
235 cgggtgtcga ctataccatc actgtatacg ct          32
237 <210> SEQ ID NO: 20
238 <211> LENGTH: 55
239 <212> TYPE: DNA
240 <213> ORGANISM: Artificial Sequence
242 <220> FEATURE:
243 <223> OTHER INFORMATION: Oligonucleotide FN4R.
245 <400> SEQUENCE: 20
246 cgggatccga gtcgctggg ctgtcaccac ggccagtaac agcgtataca gtgat          55
248 <210> SEQ ID NO: 21
249 <211> LENGTH: 35
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Oligonucleotide FN5F.
256 <400> SEQUENCE: 21
257 cagcgagctc caagccaatc tcgattaact accgt          35
259 <210> SEQ ID NO: 22
260 <211> LENGTH: 37
261 <212> TYPE: DNA
262 <213> ORGANISM: Artificial Sequence
264 <220> FEATURE:
265 <223> OTHER INFORMATION: Oligonucleotide FN5R.

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Input Set : A:\109-050US1 Sequence listing.txt

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267 <400> SEQUENCE: 22
268 cgggatacctc gagttactag gtacggtagt taatcga 37
270 <210> SEQ ID NO: 23
271 <211> LENGTH: 38
272 <212> TYPE: DNA
273 <213> ORGANISM: Artificial Sequence
275 <220> FEATURE:
276 <223> OTHER INFORMATION: Oligonucleotide FN5R'.
278 <400> SEQUENCE: 23
279 cgggatccac gcgtgccacc ggtacggtag ttaatcga 38
281 <210> SEQ ID NO: 24
282 <211> LENGTH: 44
283 <212> TYPE: DNA
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: Oligonucleotide gene3F.
289 <400> SEQUENCE: 24
290 cgggatccac gcgtccattc gtttgtgaat atcaaggcca atcg 44
292 <210> SEQ ID NO: 25
293 <211> LENGTH: 39
294 <212> TYPE: DNA
295 <213> ORGANISM: Artificial Sequence
297 <220> FEATURE:
298 <223> OTHER INFORMATION: Oligonucleotide gene3R.
300 <400> SEQUENCE: 25
301 ccggaagctt taagactcct tattacgcag tatgttagc 39
303 <210> SEQ ID NO: 26
304 <211> LENGTH: 36
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial Sequence
308 <220> FEATURE:
309 <223> OTHER INFORMATION: Oligonucleotide 38TAABg1II.
311 <400> SEQUENCE: 26
312 ctgttactgg ccgtgagatc taaccagcga gctcca 36
314 <210> SEQ ID NO: 27
315 <211> LENGTH: 51
316 <212> TYPE: DNA
317 <213> ORGANISM: Artificial Sequence
319 <220> FEATURE:
320 <223> OTHER INFORMATION: Oligonucleotide BC3.
322 <221> NAME/KEY: misc_feature
323 <222> LOCATION: (1)...(51)
324 <223> OTHER INFORMATION: n = A,T,C or G
326 <400> SEQUENCE: 27
327 gatcagctgg gatgctcctn nknknknkn knnktattac cgtatcacgt a 51
329 <210> SEQ ID NO: 28
330 <211> LENGTH: 57
331 <212> TYPE: DNA
332 <213> ORGANISM: Artificial Sequence

```

→ Use of n and/or Xaa has been detected in the Sequence Listing.  
 Review the Sequence Listing to insure a corresponding  
 explanation is presented in the <220> to <223> fields of  
 each sequence using n or Xaa.

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/903,412

DATE: 07/25/2001

TIME: 14:14:52

Input Set : A:\109-050US1 Sequence listing.txt

Output Set: N:\CRF3\07252001\I903412.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28  
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29  
L:372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30  
L:681 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:55  
L:1405 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (113) SEQUENCE: